AMENDMENTS TO THE CLAIMS

- 1. (Currently amended) A curable liquid acryloyl group containing resin composition obtained by reacting
- (a) at least one monofunctional vinyl compound having only one vinyl group, and
 - (b) at least one multifunctional acrylic ester, with
- (c) at least one P-dicarbonyl group containing compound or resin, in which the β -dicarbonyl group has two activated hydrogen atoms in its methylene position,

wherein the equivalent ratio of the vinyl group of the monofunctional vinyl compound (a) to the activated hydrogen atom of the compound or resin (c) is in the range from 0.01:1 to 0.9:1 and

the equivalent ratio of all unsaturated groups from both monofunctional vinyl compound (a) and multifunctional acrylic ester (b) to the activated hydrogen atom of the compound or resin(c) is >1.05:1.

2. (Original) The composition according to claim 1, characterized in that component (a) is selected from the group consisting of acrylic esters (acrylates), alkyl vinyl ketones, acroleine, acrylonitrile, acrylamide or vinylsulfonate.

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3. (Original) The composition according to claim 1, characterized in that component (c) is selected from the group consisting of acetoacetates, β-

diketones or malonates.

4. (Currently amended) The composition of claim 1, characterized in

that the monofunctional vinyl compound has at least one additional

functional group having atoms other than carbon and hydrogen.

5. (Currently amended) The composition according to claim 4,

characterized in that the monofunctional vinyl compound having at least one

additional functional group is 2-hydroxyethyl acrylate, 2-hydroxypropyl

acrylate, 2-hydroxybutyl acrylate, 3-hydroxybutyl acrylate, 4-hydroxybutyl

acrylate, 6-hydroxyhexyl acrylate, N-alkoxymethyl acrylamide, N-acryloyl

morpholine, glycidyl acrylate, 2-isocyanatoethyl acrylate, poly(ethylene

glycol)monoacrylate, poly(propylene glycol)monoacrylate, perfluoroalkyl

acrylate or poly(dimethylsiloxane)monoacrylate.

6. (Currently amended) A process for the preparation of the curable

liquid acryloyl group containing resin composition as claimed in claim 1,

comprising the step of reacting

(a) at least one monofunctional vinyl compound having only one vinyl

group, and

(b) at least one multifunctional acrylic ester with

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(c) at least one β -dicarbonyl group containing compound or resin, in which the β -dicarbonyl group has two activated hydrogen atoms in its methylene position,

such that the equivalent ratio of the vinyl group of the monofunctional vinyl compound (a) to the activated hydrogen atom of the compound or resin (c) is in the range from 0.01:1 to 0.9:1 and

the equivalent ratio of all unsaturated groups from both the monofunctional vinyl compound (a) and the multifunctional acrylic ester (b) to the activated hydrogen atom of the compound or resin (c) is >1.05:1.

- 7. (Currently amended) A process for the preparation of the curable liquid acryloyl group containing resin composition as claimed in claim 1, comprising the steps of
 - (1) reacting
- (a) at least one monofunctional vinyl compound having only one vinyl group, with
- (c) at least one β -dicarbonyl group containing compound or resin, in which the β -dicarbonyl group has two activated hydrogen atoms in its methylene position,

to yield a mono-substituted β -dicarbonyl group containing compound or resin, in which the mono-substituted β -dicarbonyl group has only one activated hydrogen atom in its methylene position, and

- (2) reacting said mono-substituted β -dicarbonyl group containing compound or resin with
 - (b) multifunctional acrylic ester.
- 8. (Currently amended) The process according to claim 7, wherein the equivalent ratio of the vinyl group of the monofunctional-vinyl compound (a) to the activated hydrogen atom of the compound or resin (c) is in the range from 0.01:1 to 0.9:1 in the step (1), and the equivalent ratio of vinyl group of the multifunctional acrylic ester (b) to the activated hydrogen atom of the mono-substituted β -dicarbonyl group containing compound or resin is >1.05:1 in the step (2).
- 9. (Currently amended) A process according to claim 6, wherein the monofunctional vinyl compound (b) has at least one additional functional group other than vinyl group.
- 10. (Currently amended) The process according to claim 6, wherein the process is carried out in the presence of a Michael addition catalyst which is selected from the group consisting of organic and inorganic basic compounds having a pK>11, or from the group consisting of ammonium halogenides or from the group consisting of tertiary organic phosphines.
- 11. (Original) A curing method, comprising the step of curing a curable liquid acryloyl group containing resin composition according to claim 1 by ultraviolet light or electron beam or heat.

- 12. (Original) The curing method according to claim 11, wherein the curing step is carried out in the absence of a photoinitiator.
- 13. (Original) A cured product obtained by the curing method according to claim 12.
- 14. (Original) A cured product obtained by the curing method according to claim 11.
- 15. (Original) A curing method, comprising the step of curing a curable liquid acryloyl group containing resin composition according to claim 2 by ultraviolet light or electron beam or heat.
- 16. (Original) The curing method according to claim 15, wherein the curing step is carried out in the absence of a photoinitiator.
- 17. (Original) A cured product obtained by the curing method according to claim 16.
- 18. (Original) A cured product obtained by the curing method according to claim 15.
- 19. (Original) A curing method, comprising the step of curing a curable liquid acryloyl group containing resin composition according to claim 3 by ultraviolet light or electron beam or heat.
- 20. (Original) The curing method according to claim 19, wherein the curing step is carried out in the absence of a photoinitiator.

- 21. (Original) A cured product obtained by the curing method according to claim 20.
- 22. (Original) A cured product obtained by the curing method according to claim 19.
- 23. (Original) A curing method, comprising the step of curing a curable liquid acryloyl group containing resin composition according to claim 4 by ultraviolet light or electron beam or heat.
- 24. (Original) The curing method according to claim 23, wherein the curing step is carried out in the absence of a photoinitiator.
- 25. (Original) A cured product obtained by the curing method according to claim 24.
- 26. (Original) A cured product obtained by the curing method according to claim 23.
- 27. (Original) A curing method, comprising the step of curing a curable liquid acryloyl group containing resin composition according to claim 5 by ultraviolet light or electron beam or heat.
- 28. (Original) The curing method according to claim 27, wherein the curing step is carried out in the absence of a photoinitiator.
- 29. (Original) A cured product obtained by the curing method according to claim 28.

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30. (Original) A cured product obtained by the curing method

31. (Original) The composition according to claim 2, characterized in

that component (c) is selected from the group consisting of acetoacetates, β -

diketones or malonates.

according to claim 27.

32. (Currently amended) A process according to claim 7, wherein the

monofunctional vinyl compound (b) has at least one additional functional

group other than vinyl group.

33. (Currently amended) The process according to claim 7, wherein the

process is carried out in the presence of a Michael addition catalyst-which is

selected from the group consisting of organic and inorganic basic

compounds having a pK>11 or from the group consisting of ammonium

halogenides or from the group consisting of tertiary organic phosphines.

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